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SPECIFICATION FOR JUMP STANDS

UDC 685·643·2

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Gr 2

December 1986

Indian Standard

SPECIFICATION FOR JUMP STANDS

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Indian Standard

SPECIFICATION FOR JUMP STANDS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 27 March 1986, after the draft finalized by the Sports Goods Sectional Committee had been approved by the Consumer Products and Medical Instruments Division Council.

0.2 While preparing this standard, assistance has been derived from BS 1892 : Part 2: Section 2.4 : 1972 'Specification for gymnasium equipment: Part 2. Particular requirements: Section 2.4. Beating boards spring boards, balancing benches and jump stands', issued by the British Standards Institution (BSI).

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers requirements for jump stands used in gymnastics.

2. DIMENSIONS

2.1 The following dimensions along with those covered in Fig. 1 and 2 shall be applicable for this standard:

Overall height (timber)	2 000 mm
Length of feet (timber)	600 mm
Diameter of base (aluminium)	380 mm
Section of stand (timber)	44 × 44 mm
Section of feet (timber)	95 × 44 mm
Section of braces	20 × 3 mm

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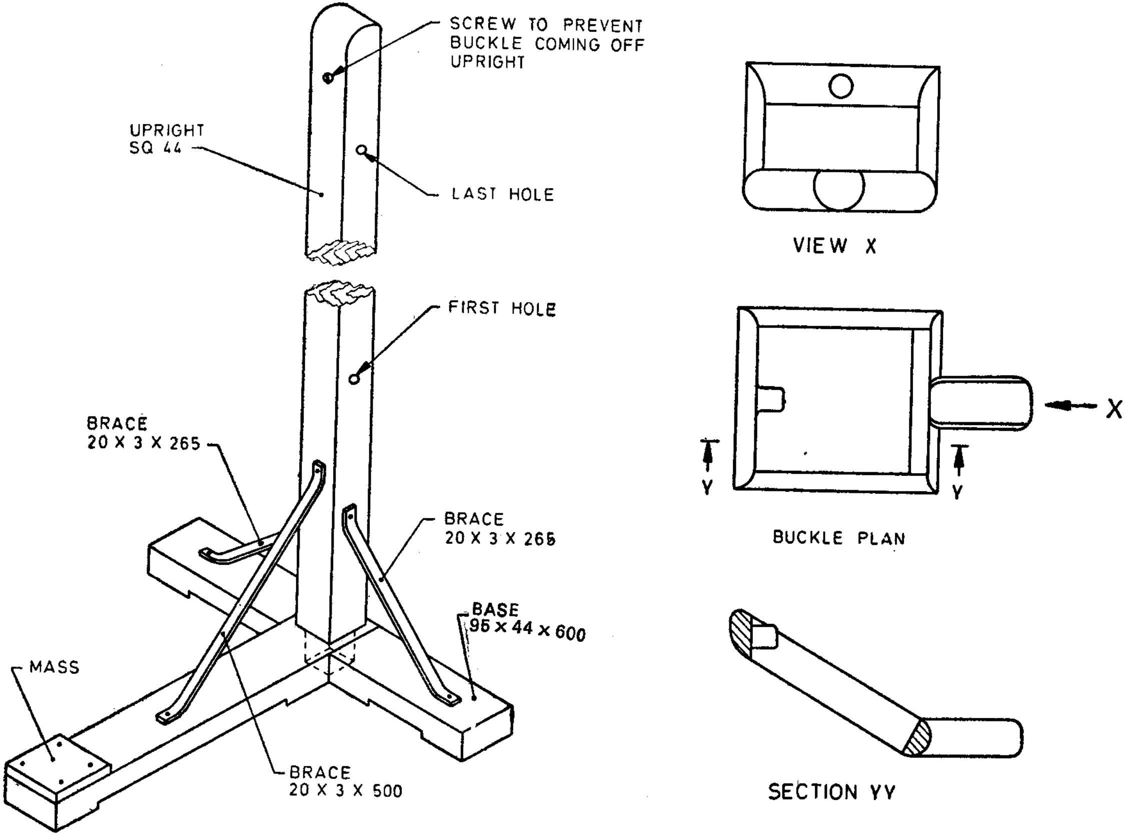
*Rules for rounding off numerical values (*revised*).



All dimensions in millimetres.

FIG. 1 JUMP STAND, TIMBER

3. MATERIAL

3.1 The materials for uprights and feet shall conform to either Group I timber covered in IS : 9195 (Part 1)-1979* or aluminium tube covered in IS : 738-1977†.

3.2 The materials for stays, buckle, ropes, bags and lath shall conform to IS : 9195 (Part 1)-1979*.

4. CONSTRUCTION REQUIREMENTS

4.1 The construction requirements shall conform to **3** of IS : 9195 (Part 1)-1979*.

4.2 Jump stands shall be made in sets consisting of a pair of uprights, buckles and a lath or rope as desired by the purchaser.

4.3 Timber Stands

4.3.1 The uprights of timber (*see* Fig. 1) shall consist of 44 mm square timbers, tennoned, glued and wedged to the base and braced by mild steel flat braces bolted to the upright base frame.

4.3.2 The tops of the upright shall be rounded. The base of the stand shall be balanced by means of a mass of 3·6 kg placed as shown in Fig. 1.

4.3.3 At intervals of 25 mm from a point 500 mm above the floor level to a height of 1 800 mm from the floor, holes of 12 mm diameter shall be drilled into the upright. The holes shall be marked by means of 10 mm high red figures for each 100 mm division.

4.3.4 A galvanized malleable iron buckle to be provided with each stand shall be so arranged that it is capable of sliding up and down the stand and of being fixed in position by a pin cast on and projecting inwards so as to fit into the holes drilled in the upright. At the other end of the buckle a second pin not less than 28 mm in length and giving a face flat for at least 12 mm shall project and provide a support for a rope or lath.

4.3.5 The rope, if required, shall be 32 mm in circumference and 5 mm in length and shall have a sandbag fastened to each end. The colour of the rope shall be as agreed to between the purchaser and the manufacturer. The bag shall be formed of cowhide blocked to shape sewn all round and provided with an eyelet for the rope. The total mass of each bag shall be not less than 0·5 kg.

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*Specification for gymnasium equipment: Part 1 General requirements.

†Specification for wrought aluminium and aluminium alloy drawn tube for general engineering purposes (*second revision*).

4.3.5.1 Each bag shall be filled with well-rounded shingle.

4.4 Aluminium Stand

4.4.1 The aluminium stand shall be of tubing in a solid base (*see* Fig. 2). The dual purpose slide with platform for lath and pin for cord shall have markings for fine adjustment to 5 mm.

4.4.2 It shall be at least as suitable in all respects as the timber type and the base shall not be liable to damage the floor when used indoors. The mass of the base shall be at least 7 kg and may be of moulded rubber or a metal casting or a combination of both.

4.4.3 The height markings shall be engraved in a position and manner that obviates their defacement during the use of the apparatus. The markings shall be in metres and decimals of a metre. The slide shall be of non-rusting metal capable of supporting both a lath and a cord.

5. MARKING

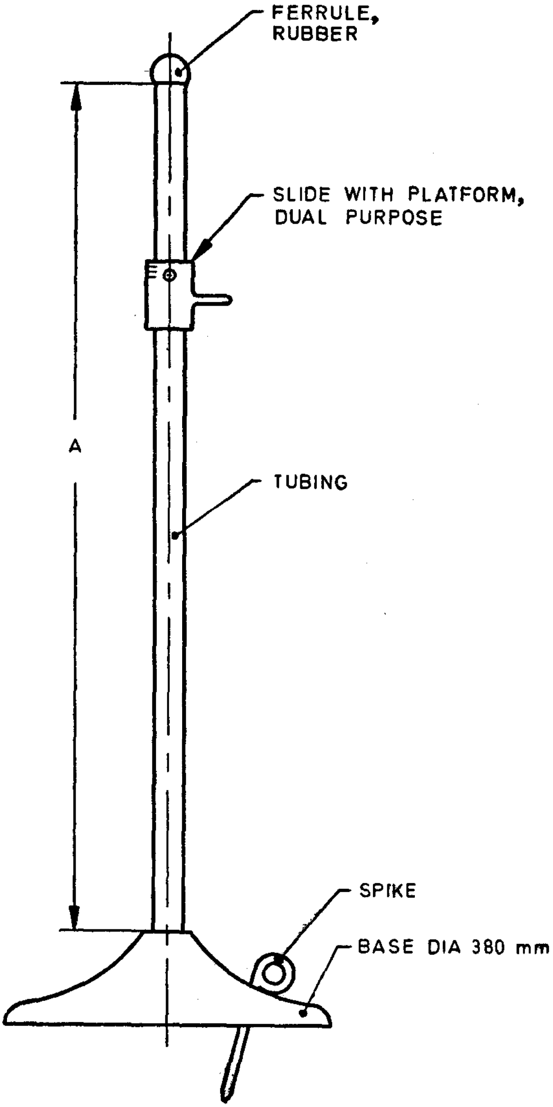
5.1 The jump stands shall be prominently marked with the manufacturer's name, initials or recognized trade-mark.

5.1.1 The jump stands may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to the standard as a further safeguard. Details of conditions under which a licence for that use of the ISI Certification Mark may be granted to manufacturers or processors may be obtained from the Indian Standards Institution.

6. PACKING

6.1 The equipment shall be packed as agreed to between the manufacturer and the purchaser.



A { For junior 600 to 1 300 mm
For senior 600 to 1 980 mm

FIG. 2 JUMP STAND, ALUMINIUM

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	Unit	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	Unit	Symbol	Definition
Force	newton	N	1 N = 1 kg.m/s^2
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2